

Order 11943



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200  
Fax 613 632-5246

D3296-3

Job Sheet 188889



Part No: D3296-3

Job Qty: 10 pcs

Part Name: Door Panel



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 1/16/19

Job Tracking No:

Due Date: 2/12/19

Created By: Dara Macdonald

Type: SOLD

Description:

Note: DWG REV B IPP C 05.10.14 Added step 14 KJ/EC IPP Rev:E Now on Waterjet 06-11-02 JLM

Ship Via:

## Bill of Materials

## Job Routing

| Op No | Operation           | Qty    | Start Date | Due Date | Standard  |         | Workcenter/Supplier   |           | Sign-off    |
|-------|---------------------|--------|------------|----------|-----------|---------|-----------------------|-----------|-------------|
|       |                     |        |            |          | Setup Hrs | Run Hrs | Workcenter / Supplier | Lead Time |             |
| 100   | Waterjet - Flow - 1 | 10 pcs |            | 2/12/19  | 0.04      | 0.80    | Waterjet - Flow       |           | SC 19/01/29 |
| 120   | QC 8                | 10 pcs |            | 2/12/19  | 0.00      | 0.00    | QC 8 - 12             |           |             |
|       |                     |        |            |          |           |         | QC 8 - 14             |           |             |
|       |                     |        |            |          |           |         | QC 8 - 17             |           |             |
|       |                     |        |            |          |           |         | QC 8 - 20             |           |             |
|       |                     |        |            |          |           |         | QC 8 - 25             |           |             |
|       |                     |        |            |          |           |         | QC 8 - 3              |           |             |
|       |                     |        |            |          |           |         | QC 8 - 32             |           |             |
|       |                     |        |            |          |           |         | QC 8 - 33             |           |             |
|       |                     |        |            |          |           |         | QC 8 - 35             |           | DAS         |
|       |                     |        |            |          |           |         | QC 8 - 38             |           | 38          |
|       |                     |        |            |          |           |         | QC 8 - 39             |           | 9-89        |
|       |                     |        |            |          |           |         | QC 8 - 4              |           |             |
|       |                     |        |            |          |           |         | QC 8 - 44             |           |             |
|       |                     |        |            |          |           |         | QC 8 - 45             |           |             |
|       |                     |        |            |          |           |         | QC 8 - 49             |           |             |
|       |                     |        |            |          |           |         | QC 8 - 58             |           |             |
|       |                     |        |            |          |           |         | QC 8 - 8              |           |             |
|       |                     |        |            |          |           |         | QC 8 - 9              |           |             |
|       |                     |        |            |          |           |         | QC 8 - 68             |           |             |
|       |                     |        |            |          |           |         | QC 8 - 67             |           |             |
|       |                     |        |            |          |           |         | QC 8 - 1 (A)          |           |             |
| 130   | Small Fab - 2 - B4B | 10 pcs |            | 2/12/19  | 0.00      | 0.00    | Small Fab - 1 - B4B   |           |             |
|       |                     |        |            |          |           |         | Small Fab - 2 - B4B   |           |             |
|       |                     |        |            |          |           |         | Small Fab - 3 - B4B   |           |             |
|       |                     |        |            |          |           |         | Small Fab - 4 - B4B   |           |             |
|       |                     |        |            |          |           |         | Small Fab - 5 - B4B   |           |             |
|       |                     |        |            |          |           |         | Small Fab - 6 - B4B   |           |             |
|       |                     |        |            |          |           |         | Small Fab - 7 - B4B   |           |             |



Dart Aerospace Ltd.  
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Hawkesbury, ON K6A 1K7  
CANADA  
TEL.: 1 813 632-5200  
Email: sales@dartaero.com  
www.dartaerospace.com

**Container No: S148701**



**Part: D3296-3**

**Job No: 188889**

**Serial No/Batch: S148701**

**Revision:**

**Inspector:**

**Exp Date:**

**Instructions: Various STC's**

**Date: 01/29/19**

140 Handfinish - 1-1 Chemical-  
B4B

10  
pcs

2/12/19

0.00 0.54

Handfinish - 1 - 1 - B4B

Handfinish - 1 - 2 - B4B

Handfinish - 1 - 3 - B4B

Handfinish - 1 - 4 - B4B

Handfinish - 1 - 5 - B4B

Handfinish - 1 - 6 - B4B

Handfinish - 1 - 7 - B4B

Handfinish - 1 - 8 - B4B

Handfinish - 1 - 9 - B4B

Handfinish - 1 - 10 -  
B4B

Handfinish - 1 - 11 -  
B4B

Handfinish - 1 - 12 -  
B4B

Handfinish - 1 - 13 -  
B4B

Handfinish - 1 - 14 -  
B4B

Handfinish - 1 - 15 -  
B4B

Handfinish - 1 - 16 -  
B4B

Handfinish - 1 - 17 -  
B4B

Handfinish - 1 - 18 -  
B4B

Handfinish - 1 - 19 -  
B4B

Handfinish - 1 - 20 -  
B4B

Handfinish - 1 - 21 -  
B4B

Handfinish - 1 - 22 -  
B4B

D.R 19/02/19

150 QC 7

10  
pcs

2/12/19

0.00 0.00

QC 7 - 10

QC 7 - 13

QC 7 - 14

QC 7 - 15

QC 7 - 17

QC 7 - 18

QC 7 - 19

QC 7 - 2

QC 7 - 28

QC 7 - 3

QC 7 - 30

QC 7 - 34

QC 7 - 36

QC 7 - 37

QC 7 - 38

QC 7 - 41

QC 7 - 47

QC 7 - 48

QC 7 - 51

QC 7 - 58

QC 7 - 59

QC 7 - 6

QC 7 - 60

QC 7 - 9

QC 7 - 68

QC 7 - 50

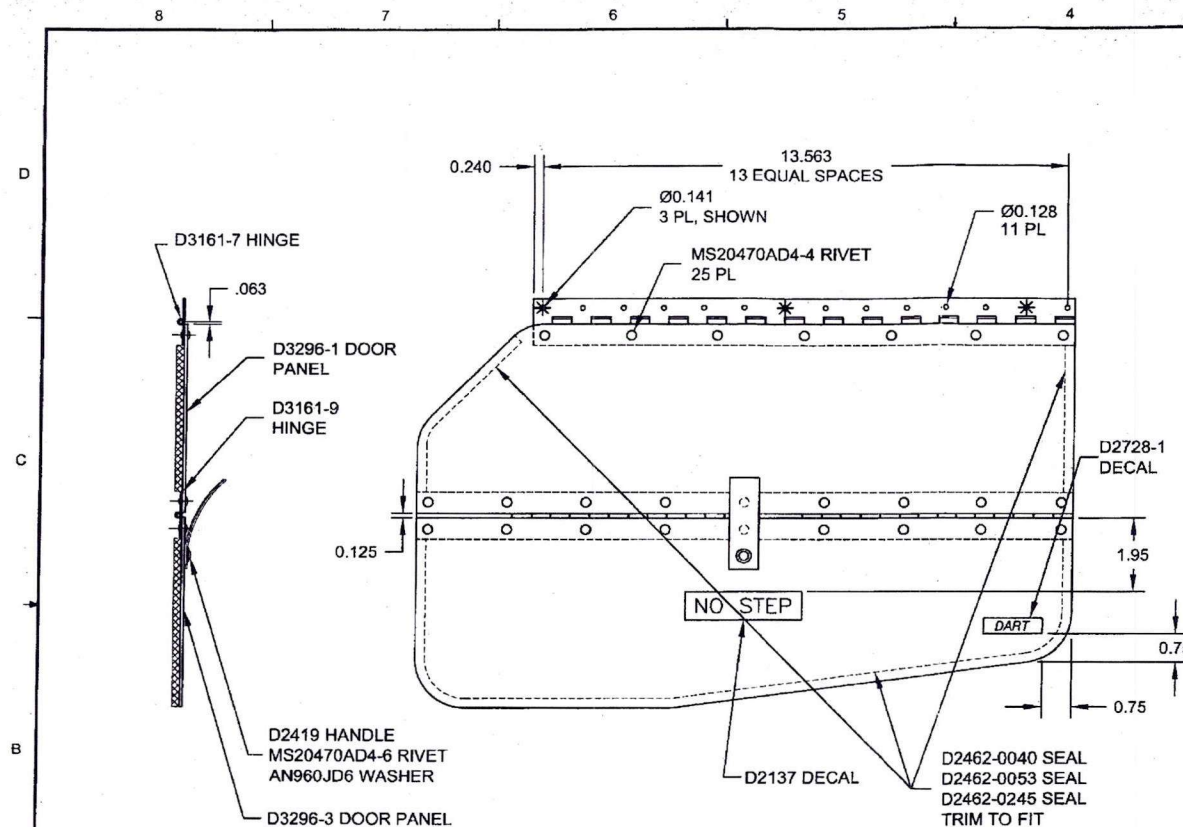
SC/ DAS  
68 19/02/19  
9-89

|                                                                                                                                                                                                                                                                                                                                  |                             |                      |                         |           |                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|----------------------|-------------------------|-----------|------------------------|
|                                                                                                                                                                                                                                                                                                                                  |                             |                      |                         | QC 7 - 67 |                        |
| 160                                                                                                                                                                                                                                                                                                                              | Packaging 3-1 - Stock - B4B | 10<br>pcs            | 2/12/19                 | 0.00 0.00 | Packaging 3 - 1 - B4B  |
|                                                                                                                                                                                                                                                                                                                                  |                             |                      |                         |           | Packaging 3 - 2 - B4B  |
|                                                                                                                                                                                                                                                                                                                                  |                             |                      |                         |           | Packaging 3 - 3 - B4B  |
|                                                                                                                                                                                                                                                                                                                                  |                             |                      |                         |           | Packaging 3 - 4 - B4B  |
|                                                                                                                                                                                                                                                                                                                                  |                             |                      |                         |           | Packaging 3 - 5 - B4B  |
|                                                                                                                                                                                                                                                                                                                                  |                             |                      |                         |           | Packaging 3 - 6 - B4B  |
|                                                                                                                                                                                                                                                                                                                                  |                             |                      |                         |           | Packaging 3 - 7 - B4B  |
|                                                                                                                                                                                                                                                                                                                                  |                             |                      |                         |           | Packaging 3 - 8 - B4B  |
|                                                                                                                                                                                                                                                                                                                                  |                             |                      |                         |           | Packaging 3 - 9 - B4B  |
|                                                                                                                                                                                                                                                                                                                                  |                             |                      |                         |           | Packaging 3 - 10 - B4B |
|                                                                                                                                                                                                                                                                                                                                  |                             |                      |                         |           | Packaging 3 - 11 - B4B |
|                                                                                                                                                                                                                                                                                                                                  |                             |                      |                         |           | Packaging 3 - 12 - B4B |
|                                                                                                                                                                                                                                                                                                                                  |                             |                      |                         |           | Packaging 3 - 13 - B4B |
|                                                                                                                                                                                                                                                                                                                                  |                             |                      |                         |           | Packaging 3 - 14 - B4B |
|                                                                                                                                                                                                                                                                                                                                  |                             |                      |                         |           | Packaging 3 - 15 - B4B |
|                                                                                                                                                                                                                                                                                                                                  |                             |                      |                         |           | Packaging 3 - 16 - B4B |
|                                                                                                                                                                                                                                                                                                                                  |                             |                      |                         |           | Packaging 3 - 17 - B4B |
|                                                                                                                                                                                                                                                                                                                                  |                             |                      |                         |           | Packaging 3 - 18 - B4B |
|                                                                                                                                                                                                                                                                                                                                  |                             |                      |                         |           | Packaging 3 - 19 - B4B |
|                                                                                                                                                                                                                                                                                                                                  |                             |                      |                         |           | Packaging 3 - 20 - B4B |
|                                                                                                                                                                                                                                                                                                                                  |                             |                      |                         |           | Packaging 3 - 21 - B4B |
|                                                                                                                                                                                                                                                                                                                                  |                             |                      |                         |           | Packaging 3 - 22 - B4B |
|                                                                                                                                                                                                                                                                                                                                  |                             |                      |                         |           | Packaging 3 - 23 - B4B |
|                                                                                                                                                                                                                                                                                                                                  |                             |                      |                         |           | Packaging 3 - 24 - B4B |
|                                                                                                                                                                                                                                                                                                                                  |                             |                      |                         |           | Packaging 3 - 25 - B4B |
|                                                                                                                                                                                                                                                                                                                                  |                             |                      |                         |           | Packaging 3 - 26 - B4B |
|                                                                                                                                                                                                                                                                                                                                  |                             |                      |                         |           | Packaging 3 - 27 - B4B |
|                                                                                                                                                                                                                                                                                                                                  |                             |                      |                         |           | Packaging 3 - 28 - B4B |
|                                                                                                                                                                                                                                                                                                                                  |                             |                      |                         |           | Packaging 3 - 29 - B4B |
|                                                                                                                                                                                                                                                                                                                                  |                             |                      |                         |           | Packaging 3 - 30 - B4B |
|                                                                                                                                                                                                                                                                                                                                  |                             |                      |                         |           | Packaging 3 - 31 - B4B |
|                                                                                                                                                                                                                                                                                                                                  |                             |                      |                         |           | Packaging 3 - 32 - B4B |
|                                                                                                                                                                                                                                                                                                                                  |                             |                      |                         |           | Packaging 3 - 33 - B4B |
|                                                                                                                                                                                                                                                                                                                                  |                             |                      |                         |           | Packaging 3 - 34 - B4B |
|                                                                                                                                                                                                                                                                                                                                  |                             |                      |                         |           | Packaging 3 - 35 - B4B |
|                                                                                                                                                                                                                                                                                                                                  |                             |                      |                         |           | Packaging 3 - 36 - B4B |
| 170                                                                                                                                                                                                                                                                                                                              | QC 21 - SA                  | 10<br>pcs            | 2/12/19                 | 0.00 0.00 | QC 21 - SA - 21        |
|                                                                                                                                                                                                                                                                                                                                  |                             |                      |                         |           | QC 21 - SA - 70        |
| Part Op 100 - (Waterjet - Flow)<br>Descriptions: 120 - (QC8- Inspect parts - second check)<br>130 - (Small Fab)<br>140 - (Chemical Conversion Coat per QSI005 4.1)<br>150 - (QC7-Inspect Chemical Conversion Coat)<br>160 - (Identify as per dwg & Stock Location: _____)<br>170 - (QC21- Final Inspection - Work Order Release) |                             |                      |                         |           |                        |
| Job BOM                                                                                                                                                                                                                                                                                                                          |                             |                      |                         |           |                        |
| Part / Item                                                                                                                                                                                                                                                                                                                      | Component Name              | Quantity             | Operation               | Container |                        |
| M2024T3S.063                                                                                                                                                                                                                                                                                                                     | 2024-T3 .063 Sheet          | 6.5320 sf (.6532 ea) | 100-Waterjet - Flow - 1 | 5146235   |                        |
| Job Allocations                                                                                                                                                                                                                                                                                                                  |                             |                      |                         |           |                        |
| Operation                                                                                                                                                                                                                                                                                                                        | Component Part              | Required             | Inventory               | Allocated |                        |
| 100-Waterjet - Flow - 1                                                                                                                                                                                                                                                                                                          | M2024T3S.063                | 7                    | 6                       | 0         |                        |



| Part Specifications |             |                                |                  |        |                  |
|---------------------|-------------|--------------------------------|------------------|--------|------------------|
| Spec No             | Description | Target/Tolerance               | Limits           | Type   | Special Comments |
| 1                   | Door Panel  | 5.030inches ± 0.030            | 5.060<br>5.000   | 5,032  |                  |
| 2                   | Door Panel  | 0.060inches ± 0.010            | 0.070<br>0.050   | 0,060  |                  |
| 3                   | Door Panel  | 0.128inches + 0.005<br>- 0.000 | 0.133<br>0.128   | 0,129  |                  |
| 4                   | Door Panel  | 17.000inches ± 0.030           | 17.030<br>16.970 | 17,002 |                  |
| 5                   | Door Panel  | 16.400inches ± 0.005           | 16.405<br>16.395 | 16,404 |                  |
| 6                   | Door Panel  | 0.300inches ± 0.010            | 0.310<br>0.290   | 0,303  |                  |
| 7                   | Door Panel  | 0.300inches ± 0.010            | 0.310<br>0.290   | 0,301  |                  |
| 8                   | Door Panel  | 1.000inches + 0.030<br>- 0.010 | 1.030<br>0.990   | 1,002  |                  |
| 9                   | Door Panel  | 0.063inches ± 0.010            | 0.073<br>0.053   | 0,061  |                  |

Plex 1/16/19 11:44 AM Dart.Macdonald.Dara



**D3296-041 DOOR ASSEMBLY**

**D3296-041 NOTES:**

- 1) MATERIAL: N/A
- 2) FINISH: POWDER COAT BLACK SANDEX (4.3.5.7) PER DART QSI 005 4.3
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: NONE
- 7) WEIGHT: 1.8 lbs
- 8) INSTALL D2137 AND D2728-1 DECALS, D2419 HANDLE, AND D2462 SEALS AFTER POWDER COATING
- 9) FOLD AND FASTEN D2419 TO FORM 2.5" LONG HANDLE

| QTY  | PART NUMBER   | DESCRIPTION          |
|------|---------------|----------------------|
| -041 |               |                      |
| X    | D3296-041     | DOOR ASSEMBLY        |
| 1    | D2419         | HANDLE               |
| 2    | D2462-0040    | SEAL                 |
| 1    | D2462-0053    | SEAL                 |
| 1    | D2462-0245    | SEAL                 |
| 1    | D2728-1       | DECAL                |
| 1    | D2137         | DECAL                |
| 1    | D3161-7       | HINGE                |
| 1    | D3161-9       | HINGE                |
| 1    | D3296-1       | DOOR PANEL           |
| 1    | D3296-3       | DOOR PANEL           |
| 1    | NAS1149DN632J | WASHER (OR AN960JD6) |
| 25   | MS20470AD4-4  | RIVET                |
| 1    | MS20470AD4-6  | RIVET                |

RELEASED  
2012-11-2

|            |                                 |    |          |
|------------|---------------------------------|----|----------|
| B          | ADD D3296-041B. REF. PAR12-223. | MB | 12.11.15 |
| A          | NEW ISSUE                       | CP | 04.06.28 |
| REV.       | DESCRIPTION                     | BY | DATE     |
| DESIGN     |                                 |    |          |
| DRAWN      |                                 |    |          |
| CHECKED    |                                 |    |          |
| MFG. APPR. |                                 |    |          |
| APPROVED   |                                 |    |          |
| DE APPR.   |                                 |    |          |
| DATE       | 12.11.15                        |    |          |

**DART AEROSPACE LTD**  
HAWKESBURY, ONTARIO, CANADA

DRAWING NO. D3296  
REV. B  
SHEET 1 OF 3  
TITLE DOOR ASSEMBLY  
SCALE NTS

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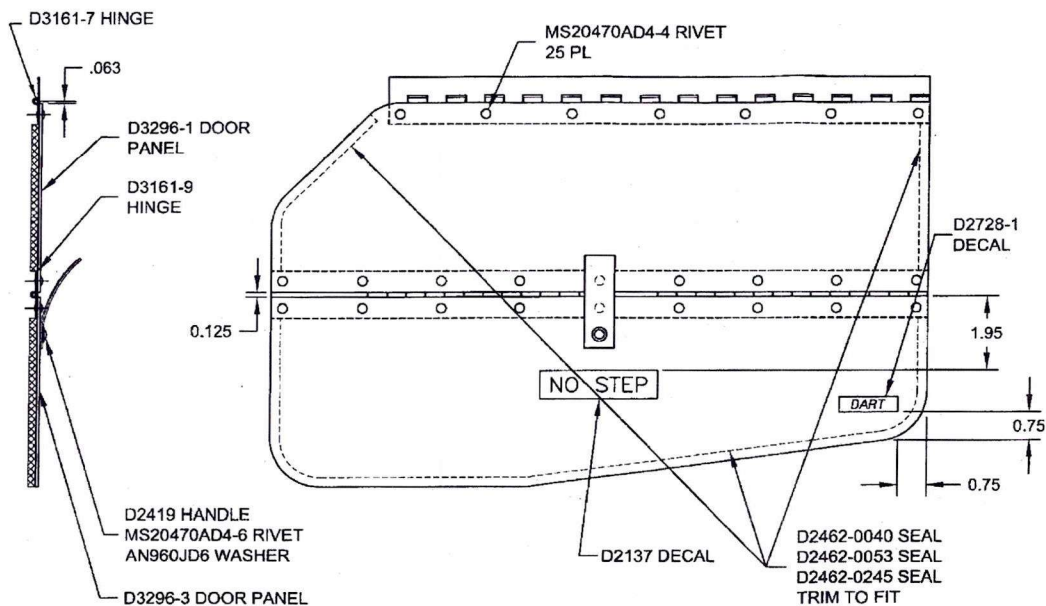
4

3

2

1

| QTY<br>-041B | PART NUMBER   | DESCRIPTION          |
|--------------|---------------|----------------------|
| X            | D3296-041B    | DOOR ASSEMBLY        |
| 1            | D2419         | HANDLE               |
| 2            | D2462-0040    | SEAL                 |
| 1            | D2462-0053    | SEAL                 |
| 1            | D2462-0245    | SEAL                 |
| 1            | D2728-1       | DECAL                |
| 1            | D2137         | DECAL                |
| 1            | D3161-7       | HINGE                |
| 1            | D3161-9       | HINGE                |
| 1            | D3296-1       | DOOR PANEL           |
| 1            | D3296-3       | DOOR PANEL           |
| 1            | NAS1149DN632J | WASHER (OR AN960JD6) |
| 25           | MS20470AD4-4  | RIVET                |
| 1            | MS20470AD4-6  | RIVET                |



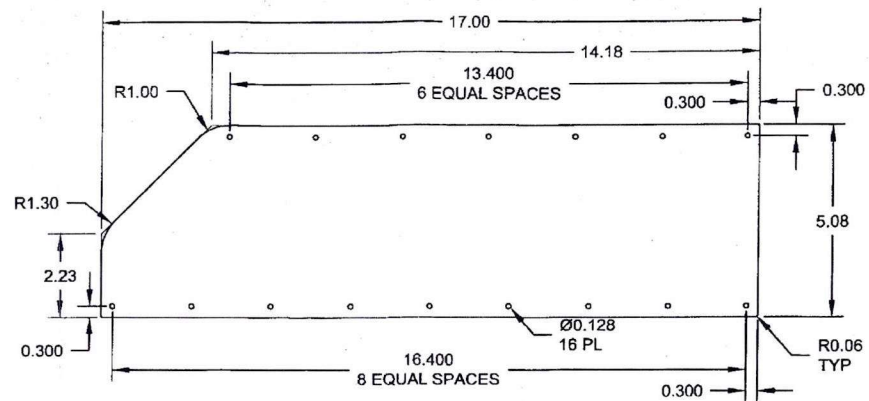
D3296-041B DOOR ASSEMBLY, BLANK

**D3296-041B NOTES:**

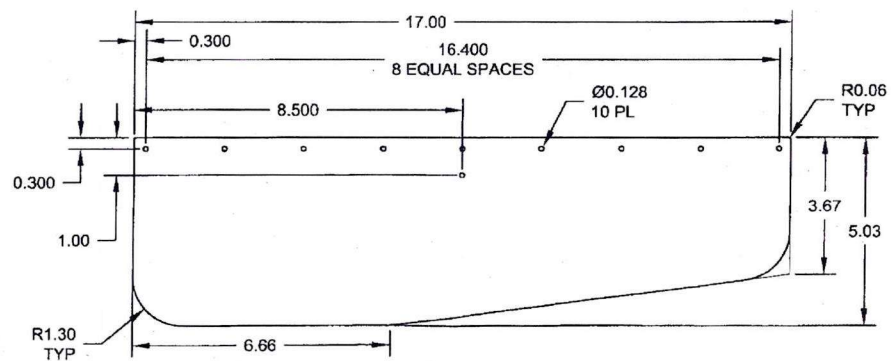
- 1) MATERIAL: N/A
- 2) FINISH: POWDER COAT BLACK SANDEX (4.3.5.7) PER DART QSI 005 4.3
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: NONE
- 7) WEIGHT: 1.8 lbs
- 8) INSTALL D2137 AND D2728-1 DECALS, D2419 HANDLE, AND D2462 SEALS AFTER POWDER COATING
- 9) FOLD AND FASTEN D2419 TO FORM 2.5" LONG HANDLE

RELEASED  
2012-11-21  
WFO

|                                                                                                                                                                                                                      |          |                                        |              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------------------------------|--------------|
| DESIGN                                                                                                                                                                                                               | 92       | <b>DART AEROSPACE LTD</b>              |              |
| DRAWN                                                                                                                                                                                                                | JP       | HAWKESBURY, ONTARIO, CANADA            |              |
| CHECKED                                                                                                                                                                                                              | JP       | DRAWING NO.                            | REV. B       |
| MFG. APPR.                                                                                                                                                                                                           | JP       | D3296                                  | SHEET 2 OF 3 |
| APPROVED                                                                                                                                                                                                             | WFO      | TITLE                                  | SCALE        |
| DE APPR.                                                                                                                                                                                                             | WFO      | DOOR ASSEMBLY                          | NTS          |
| DATE                                                                                                                                                                                                                 | 12.11.15 | COPYRIGHT © 2004 BY DART AEROSPACE LTD |              |
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D3296-1 DOOR PANEL



D3296-3 DOOR PANEL

**D3296-1/-3 NOTES:**

- 1) MATERIAL: 2024-T3 ALUMINUM SHEET, 0.063 THICK, PER QQ-A-250/4 OR AMS-QQ-A-250/4 OR AMS 4037 OR ASTM B209 REF DART SPEC M2024T3S.063
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: NONE
- 7) WEIGHT: D3296-1 = 0.52 lbs; D3296-3 = 0.50 lbs

|                                                                                                                                                                                                                                |          |                                        |              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------------------------------|--------------|
| DESIGN                                                                                                                                                                                                                         |          | <b>DART AEROSPACE LTD</b>              |              |
| DRAWN                                                                                                                                                                                                                          |          | HAWKESBURY, ONTARIO, CANADA            |              |
| CHECKED                                                                                                                                                                                                                        |          | DRAWING NO.                            | REV. B       |
| MFG. APPR.                                                                                                                                                                                                                     |          | D3296                                  | SHEET 3 OF 3 |
| APPROVED                                                                                                                                                                                                                       |          | TITLE                                  | SCALE        |
| DE APPR.                                                                                                                                                                                                                       |          | DOOR ASSEMBLY                          | NTS          |
| DATE                                                                                                                                                                                                                           | 12.11.15 | COPYRIGHT © 2004 BY DART AEROSPACE LTD |              |
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RELEASE  
2012-11-21



Entered: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. \_\_\_\_\_

Route update only ☐

|                                                                                                                                                                                                                                                                                                                                                                                     |                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |                     |  |                                          |                                        |                                           |                                           |                                  |                                                |                                        |                                            |                                   |                                    |                                          |                                  |                                 |                                               |                               |                                 |                                                       |                                                          |                                             |                                            |                                        |                                      |                                          |                                  |                                     |                                       |                                         |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------|--|------------------------------------------|----------------------------------------|-------------------------------------------|-------------------------------------------|----------------------------------|------------------------------------------------|----------------------------------------|--------------------------------------------|-----------------------------------|------------------------------------|------------------------------------------|----------------------------------|---------------------------------|-----------------------------------------------|-------------------------------|---------------------------------|-------------------------------------------------------|----------------------------------------------------------|---------------------------------------------|--------------------------------------------|----------------------------------------|--------------------------------------|------------------------------------------|----------------------------------|-------------------------------------|---------------------------------------|-----------------------------------------|--|
| <b>Job:</b> _____<br><b>Part No.</b> _____                                                                                                                                                                                                                                                                                                                                          |                                                          | <b>DISPOSITION</b><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                            | <b>DEPARTMENT/PROCESS</b><br>Skid-tube <input type="checkbox"/><br>Machining <input type="checkbox"/><br>Large Fab <input type="checkbox"/><br>Cross tube <input type="checkbox"/><br>Small Fab <input type="checkbox"/><br>Finishing <input type="checkbox"/><br>Eng. (Non-AW) <input type="checkbox"/><br>Prod. Eng. Coord. <input type="checkbox"/><br>Rec/Store/Packaging <input type="checkbox"/><br>Engineering <input type="checkbox"/><br>Water Jet <input type="checkbox"/><br>Supplier <input type="checkbox"/><br>Quality <input type="checkbox"/> |  |                     |  |                                          |                                        |                                           |                                           |                                  |                                                |                                        |                                            |                                   |                                    |                                          |                                  |                                 |                                               |                               |                                 |                                                       |                                                          |                                             |                                            |                                        |                                      |                                          |                                  |                                     |                                       |                                         |  |
| <b>Date :</b> _____                                                                                                                                                                                                                                                                                                                                                                 |                                                          | <b>Sequence #:</b> _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                            | <b>QTY Affected :</b> _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | <b>MRB (QSI042)</b> |  |                                          |                                        |                                           |                                           |                                  |                                                |                                        |                                            |                                   |                                    |                                          |                                  |                                 |                                               |                               |                                 |                                                       |                                                          |                                             |                                            |                                        |                                      |                                          |                                  |                                     |                                       |                                         |  |
| <b>Description Work Order Deviation</b>                                                                                                                                                                                                                                                                                                                                             |                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                            | <b>Disposition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                     |  |                                          |                                        |                                           |                                           |                                  |                                                |                                        |                                            |                                   |                                    |                                          |                                  |                                 |                                               |                               |                                 |                                                       |                                                          |                                             |                                            |                                        |                                      |                                          |                                  |                                     |                                       |                                         |  |
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|                                                                                                                                                                                                                                                                                                                                                                                     |                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                            | <b>Lead hand / Supervisor</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                     |  |                                          |                                        |                                           |                                           |                                  |                                                |                                        |                                            |                                   |                                    |                                          |                                  |                                 |                                               |                               |                                 |                                                       |                                                          |                                             |                                            |                                        |                                      |                                          |                                  |                                     |                                       |                                         |  |
|                                                                                                                                                                                                                                                                                                                                                                                     |                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                            | <b>QC / QA Coordinator</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                     |  |                                          |                                        |                                           |                                           |                                  |                                                |                                        |                                            |                                   |                                    |                                          |                                  |                                 |                                               |                               |                                 |                                                       |                                                          |                                             |                                            |                                        |                                      |                                          |                                  |                                     |                                       |                                         |  |
| <b>Root Cause</b><br>Operator <input type="checkbox"/><br>Manufacturing Process <input type="checkbox"/><br>Equip/Tooling <input type="checkbox"/><br>Handling/Preservation <input type="checkbox"/><br>Material <input type="checkbox"/><br>Product Improvement <input type="checkbox"/><br>Process Improvement <input type="checkbox"/><br>Human Factors <input type="checkbox"/> |                                                          | <b>FAULT CATEGORY</b><br><table border="0"><tr><td><input type="checkbox"/> Pressure/Forced</td><td><input type="checkbox"/> Contamination</td><td><input type="checkbox"/> Power Loss/Surge</td><td><input type="checkbox"/> Positioned Wrong</td></tr><tr><td><input type="checkbox"/> Bending</td><td><input type="checkbox"/> Misaligned/off center</td><td><input type="checkbox"/> Folio/Program</td><td><input type="checkbox"/> Outside Tolerance</td></tr><tr><td><input type="checkbox"/> Crushing</td><td><input type="checkbox"/> BOM/Route</td><td><input type="checkbox"/> Grain Direction</td><td><input type="checkbox"/> Drawing</td></tr><tr><td><input type="checkbox"/> Cracks</td><td><input type="checkbox"/> Broken/Damage/Defect</td><td><input type="checkbox"/> Weld</td><td><input type="checkbox"/> Finish</td></tr><tr><td><input type="checkbox"/> Crimp/Kink/Ripple/Wave/Twist</td><td><input type="checkbox"/> Incomplete/Unclear Instructions</td><td><input type="checkbox"/> Wrong Stock Pulled</td><td><input type="checkbox"/> Part Lost/Missing</td></tr><tr><td><input type="checkbox"/> Marks/Chatter</td><td><input type="checkbox"/> Drill Holes</td><td><input type="checkbox"/> Out of Sequence</td><td><input type="checkbox"/> Misread</td></tr><tr><td><input type="checkbox"/> Mislabeled</td><td><input type="checkbox"/> Fit/Function</td><td><input type="checkbox"/> Off-set/Set-up</td><td></td></tr></table> |                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |                     |  | <input type="checkbox"/> Pressure/Forced | <input type="checkbox"/> Contamination | <input type="checkbox"/> Power Loss/Surge | <input type="checkbox"/> Positioned Wrong | <input type="checkbox"/> Bending | <input type="checkbox"/> Misaligned/off center | <input type="checkbox"/> Folio/Program | <input type="checkbox"/> Outside Tolerance | <input type="checkbox"/> Crushing | <input type="checkbox"/> BOM/Route | <input type="checkbox"/> Grain Direction | <input type="checkbox"/> Drawing | <input type="checkbox"/> Cracks | <input type="checkbox"/> Broken/Damage/Defect | <input type="checkbox"/> Weld | <input type="checkbox"/> Finish | <input type="checkbox"/> Crimp/Kink/Ripple/Wave/Twist | <input type="checkbox"/> Incomplete/Unclear Instructions | <input type="checkbox"/> Wrong Stock Pulled | <input type="checkbox"/> Part Lost/Missing | <input type="checkbox"/> Marks/Chatter | <input type="checkbox"/> Drill Holes | <input type="checkbox"/> Out of Sequence | <input type="checkbox"/> Misread | <input type="checkbox"/> Mislabeled | <input type="checkbox"/> Fit/Function | <input type="checkbox"/> Off-set/Set-up |  |
| <input type="checkbox"/> Pressure/Forced                                                                                                                                                                                                                                                                                                                                            | <input type="checkbox"/> Contamination                   | <input type="checkbox"/> Power Loss/Surge                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <input type="checkbox"/> Positioned Wrong  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |                     |  |                                          |                                        |                                           |                                           |                                  |                                                |                                        |                                            |                                   |                                    |                                          |                                  |                                 |                                               |                               |                                 |                                                       |                                                          |                                             |                                            |                                        |                                      |                                          |                                  |                                     |                                       |                                         |  |
| <input type="checkbox"/> Bending                                                                                                                                                                                                                                                                                                                                                    | <input type="checkbox"/> Misaligned/off center           | <input type="checkbox"/> Folio/Program                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <input type="checkbox"/> Outside Tolerance |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |                     |  |                                          |                                        |                                           |                                           |                                  |                                                |                                        |                                            |                                   |                                    |                                          |                                  |                                 |                                               |                               |                                 |                                                       |                                                          |                                             |                                            |                                        |                                      |                                          |                                  |                                     |                                       |                                         |  |
| <input type="checkbox"/> Crushing                                                                                                                                                                                                                                                                                                                                                   | <input type="checkbox"/> BOM/Route                       | <input type="checkbox"/> Grain Direction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <input type="checkbox"/> Drawing           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |                     |  |                                          |                                        |                                           |                                           |                                  |                                                |                                        |                                            |                                   |                                    |                                          |                                  |                                 |                                               |                               |                                 |                                                       |                                                          |                                             |                                            |                                        |                                      |                                          |                                  |                                     |                                       |                                         |  |
| <input type="checkbox"/> Cracks                                                                                                                                                                                                                                                                                                                                                     | <input type="checkbox"/> Broken/Damage/Defect            | <input type="checkbox"/> Weld                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <input type="checkbox"/> Finish            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |                     |  |                                          |                                        |                                           |                                           |                                  |                                                |                                        |                                            |                                   |                                    |                                          |                                  |                                 |                                               |                               |                                 |                                                       |                                                          |                                             |                                            |                                        |                                      |                                          |                                  |                                     |                                       |                                         |  |
| <input type="checkbox"/> Crimp/Kink/Ripple/Wave/Twist                                                                                                                                                                                                                                                                                                                               | <input type="checkbox"/> Incomplete/Unclear Instructions | <input type="checkbox"/> Wrong Stock Pulled                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <input type="checkbox"/> Part Lost/Missing |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |                     |  |                                          |                                        |                                           |                                           |                                  |                                                |                                        |                                            |                                   |                                    |                                          |                                  |                                 |                                               |                               |                                 |                                                       |                                                          |                                             |                                            |                                        |                                      |                                          |                                  |                                     |                                       |                                         |  |
| <input type="checkbox"/> Marks/Chatter                                                                                                                                                                                                                                                                                                                                              | <input type="checkbox"/> Drill Holes                     | <input type="checkbox"/> Out of Sequence                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <input type="checkbox"/> Misread           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |                     |  |                                          |                                        |                                           |                                           |                                  |                                                |                                        |                                            |                                   |                                    |                                          |                                  |                                 |                                               |                               |                                 |                                                       |                                                          |                                             |                                            |                                        |                                      |                                          |                                  |                                     |                                       |                                         |  |
| <input type="checkbox"/> Mislabeled                                                                                                                                                                                                                                                                                                                                                 | <input type="checkbox"/> Fit/Function                    | <input type="checkbox"/> Off-set/Set-up                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |                     |  |                                          |                                        |                                           |                                           |                                  |                                                |                                        |                                            |                                   |                                    |                                          |                                  |                                 |                                               |                               |                                 |                                                       |                                                          |                                             |                                            |                                        |                                      |                                          |                                  |                                     |                                       |                                         |  |
|                                                                                                                                                                                                                                                                                                                                                                                     |                                                          | <b>Other/Details:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |                     |  |                                          |                                        |                                           |                                           |                                  |                                                |                                        |                                            |                                   |                                    |                                          |                                  |                                 |                                               |                               |                                 |                                                       |                                                          |                                             |                                            |                                        |                                      |                                          |                                  |                                     |                                       |                                         |  |